



## Alcohols, alkanes

Separation of C<sub>11</sub>-C<sub>13</sub> alkanes and C<sub>1</sub>-C<sub>4</sub> alcohols

### Application Note

Energy & Fuels

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#### Introduction

Gas chromatography using an Agilent TCEP column separates seven C<sub>11</sub> to C<sub>13</sub> alkanes and C<sub>1</sub> to C<sub>4</sub> alcohols in 15 minutes.



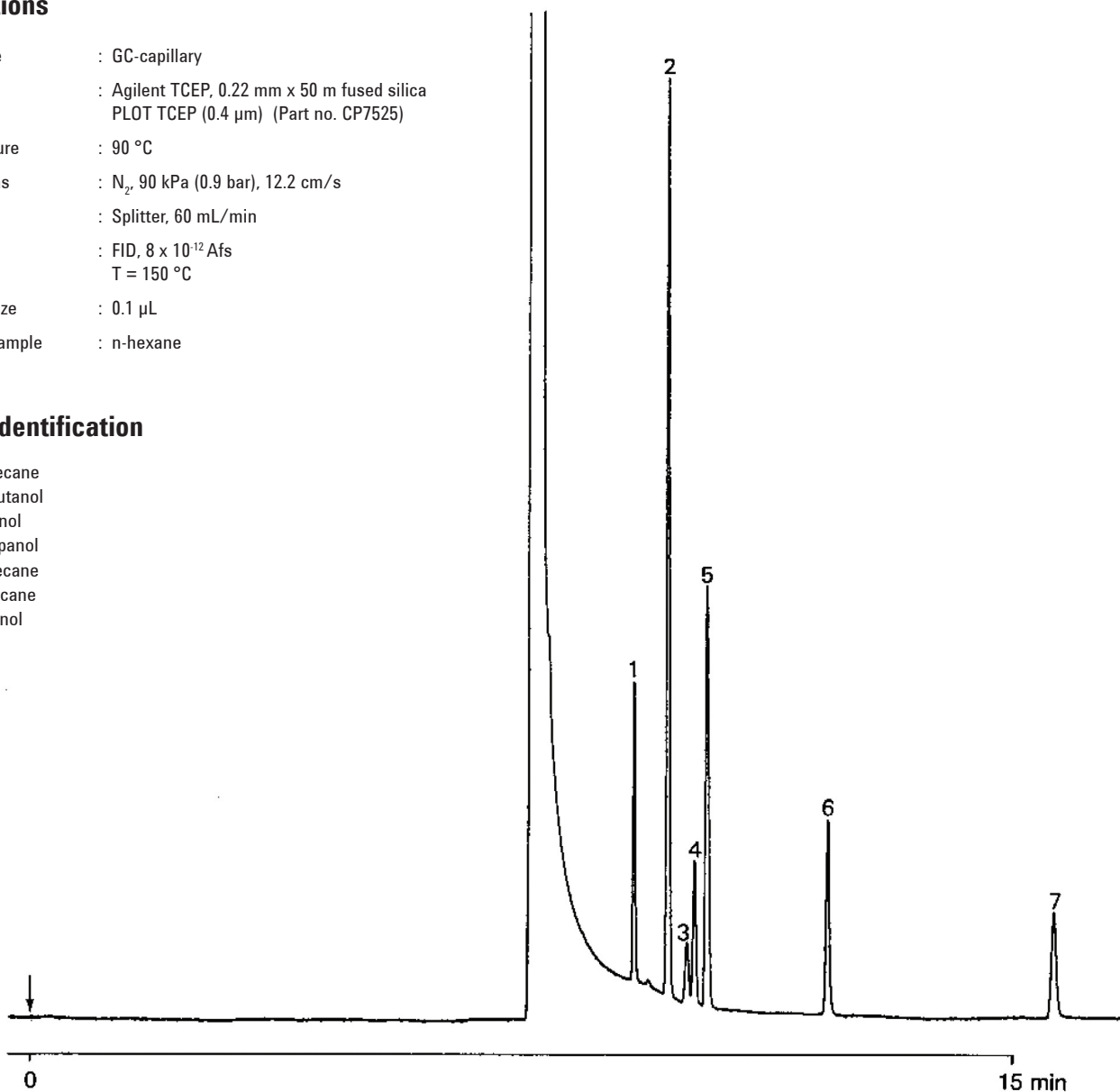
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## Conditions

Technique : GC-capillary  
Column : Agilent TCEP, 0.22 mm x 50 m fused silica  
PLOT TCEP (0.4  $\mu$ m) (Part no. CP7525)  
Temperature : 90 °C  
Carrier Gas : N<sub>2</sub>, 90 kPa (0.9 bar), 12.2 cm/s  
Injector : Splitter, 60 mL/min  
Detector : FID, 8 x 10<sup>-12</sup> Afs  
T = 150 °C  
Sample Size : 0.1  $\mu$ L  
Solvent Sample : n-hexane

## Peak identification

1. n-undecane
2. tert.-butanol
3. methanol
4. isopropanol
5. n-dodecane
6. n-tridecane
7. n-butanol



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